

# TAISOX 3840

High Density Polyethylene  
Formosa Plastics Corporation

Message:

TAISOX 3840 is a high density polyethylene material. This product is available in North America, Europe or Asia Pacific region. The processing method is: rotational molding.

The main features of TAISOX 3840 are:

- high strength
- Good processability
- Impact resistance

Typical application areas include:

- container
- Jars

General Information			
Features	High density		
	High strength		
	Workability, good		
	Low temperature impact resistance		
Uses	Container		
	Water tank		
	Loading box		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	14.7	MPa	ASTM D638
Fracture	25.5	MPa	ASTM D638
Tensile Elongation (Break)	1000	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength	137	kJ/m <sup>2</sup>	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-70.0	°C	ASTM D746
Vicat Softening Temperature	120	°C	ASTM D1525
Melting Temperature	125	°C	

#### Additional Information

Notched Izod Impact Strength, ASTM D256: 20 kg-cm/cm<sup>2</sup>

Injection	Nominal Value	Unit
Processing (Melt) Temp	170 - 190	°C

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#### Recommended distributors for this material

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